Exercise

Copy the programs presented in this section of the course. For each program copy include at the beginning of the function main() a function call for obtaining the value of the system clock and save it. Do the same at the end of the main function. Subtract the two time values and print the value the screen. Compare the times for alternative solutions for evaluating the most advantageous one.

Solution

```
#include <time.h>
.
.
int main(int argc, char *argv[])
{
        clock_t t_start, t_end;
        double secs;

        t_start = clock();
/* realizar aquí todo el código de las rutinas propuestas en la lección 8 */
        t_end = clock();

        secs = (double) (t_end - t_start);
        print("%.16 milliseconds\n", secs * 1000.0);
        return 0;
}
```

NOTE: It is advisable to repeat each execution a number of times and consider the average times for the evaluation.
There are other timing alternatives: `gettimeofday()`, `timeval_diff()`, `clock_gettime()` and `QueryPerformanceCounter()` in Windows